

What Is Claimed Is:

1. A laminated heat exchanger comprising:
  - a number of laminated tubes each formed by coupling a pair of plates;
  - a refrigerant inlet pipe for feeding refrigerant to the tubes;
  - a refrigerant outlet pipe for discharging refrigerant out of the tubes; and
  - a number of heat radiator fins interposed between the tubes,wherein at least one of the tubes includes:
  - a pair of tanks;
  - a refrigerant flow section for connecting the tanks via a partitioning bead formed between the tanks;
  - refrigerant distribution sections provided at inlet and outlet sides of the refrigerant flow section and each having a plurality of distribution channels partitioned by at least one bead; and
  - channel-restricting means provided in each of the refrigerant distribution sections, for restricting two outermost ones of the distribution channels.
2. The laminated heat exchanger as set forth in claim 1,

wherein the channel-restricting means comprise closure beads which are formed in the two outermost ones of the distribution channels of the each refrigerant distribution section to close the distribution channels.

3. The laminated heat exchanger as set forth in claim 1, wherein the channel-restricting means comprise channel-restricting portions which are formed in two outermost ones of the distribution channels of the each refrigerant distribution section so that the distribution channels are formed at a lateral middle portion of the refrigerant flow section.

4. The laminated heat exchanger as set forth in claim 1, further comprising manifolds which are formed extendably from the tanks of the plates and coupled with the refrigerant inlet and outlet pipes.

5. The laminated heat exchanger as set forth in claim 4, wherein the channel-restricting means comprise closure beads which are formed in the two outermost ones of the distribution channels of the each refrigerant distribution section to close the distribution channels.

6. The laminated heat exchanger as set forth in claim 1, wherein the two outermost ones of the distribution channels and the refrigerant flow section are configured according to Equation 1 below:

$$0.25 \leq \frac{P1+P2}{W} \leq 0.32 \quad \dots \text{Equation 1,}$$

wherein P1 and P2 are respectively the widths of the two outermost ones of the distribution channels, and W is the width of the refrigerant flow section.

7. The laminated heat exchanger as set forth in claim 1, wherein the channel-restricting means are provided in the tubes which are placed upstream of an overheated area.

8. The laminated heat exchanger as set forth in claim 1, further comprising a baffle provided in one tank of a pair of tank which is coupled with the tubes in a communicating fashion, the baffle to separate inflow refrigerant from outflow refrigerant.

9. The laminated heat exchanger as set forth in claim 8, wherein the channel-restricting means are provided in the plurality of tubes placed at outlet sides with respect to the baffle.

10. The laminated heat exchanger as set forth in claim 9, wherein the channel-restricting means are provided in corresponding ones of the outlet side tubes placed between the baffle and the outlet pipe.